

Alabama's Flood Risk Information System

Still Coming...Just Not Soon

Phillip Hicks & Jason Masters
ADECA Office of Water Resources

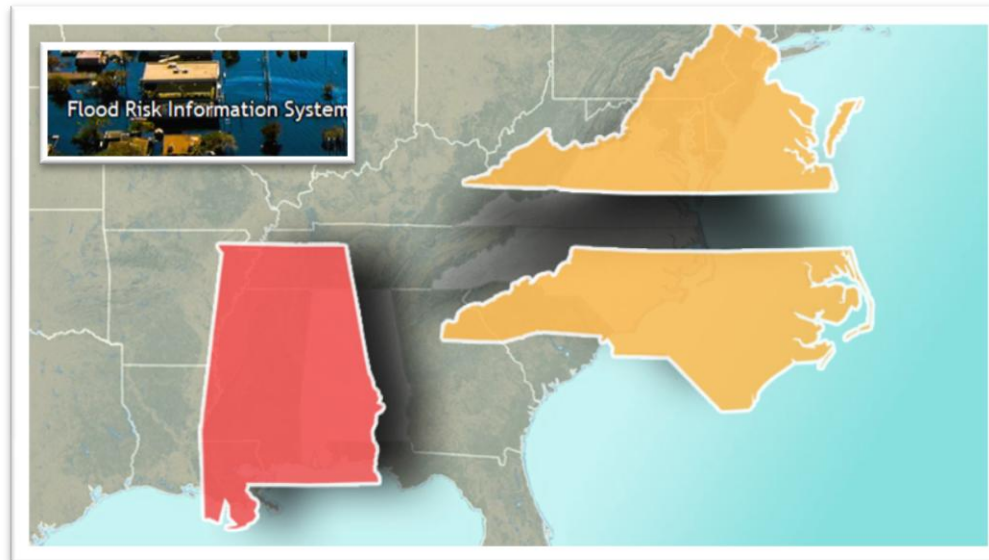


Total Recall: AL FRIS

Alabama & North Carolina Partnership

One-Stop-Online-Shop for AL Flood Data

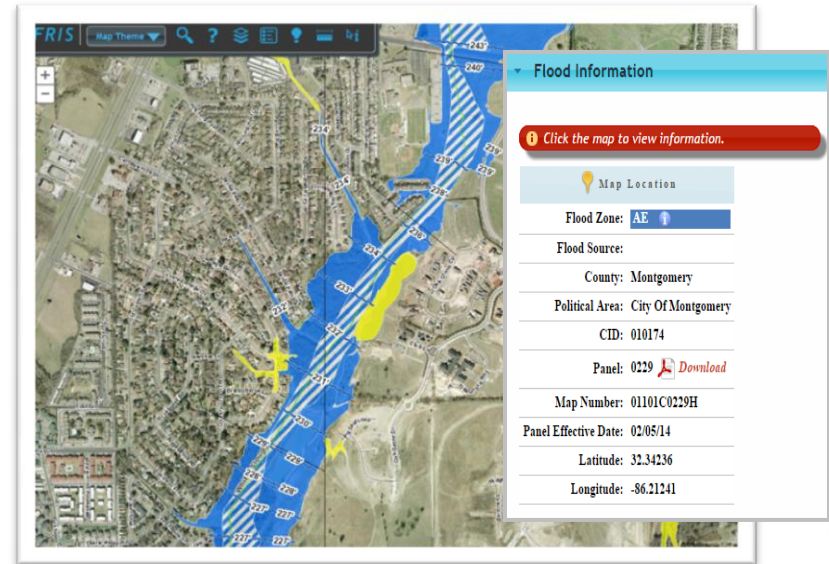
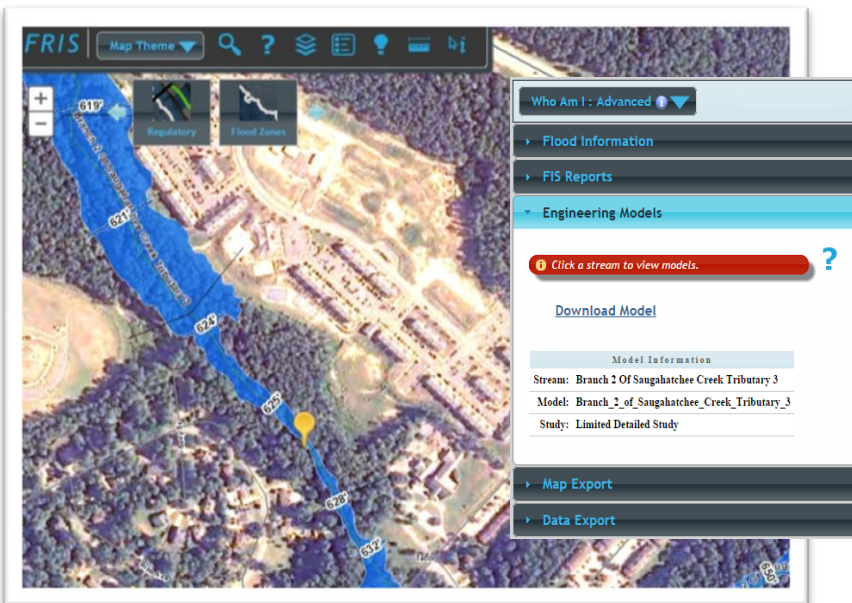
Multiple Features & Functionality



AL FRIS Features & Functions

AL FRIS Basic Site Features

- Address lookup
- Print/Download FIRMs & FIRMettes
- View effective flood data



AL FRIS Advanced Site Features

- Effective Hydraulic Model Download
- Map Data Export
- Financial Vulnerability*
- Risk Information*
- Flood Probability*

*Future Enhancements

AL FRIS Features & Functions

Dynamic Floodway Data Table

Floodway Data								
Floodway Source		Floodway			Water Surface Elevation (Feet NAVD 88)			
Cross Section	Distance	Width (Feet)	Section Area (Square Feet)	Mean Velocity (Feet Per Second)	Regulatory	Without Flood	With Flood	Increase
MILLIES CREEK								
E	24,287	546	0	2.2	193.6	193.6		
F	27,600	925	0	1.3	196.4	196.4		
G	31,850	672	0	1.7	203.0	203.0		
H	33,507	635	0	2.1	207.9	207.9		
I	35,717	789	0	1.3	210.5	210.5		
J	37,909	872	0	1.1	212.8	212.8		
K	40,350	1,408	0	1.0	214.0	214.0		
L	41,640	1,618	0	1.0	215.4	215.4		
M	41,825	393	0	2.8	215.3	215.3		
N	43,985	523	0	1.6	218.3	218.3		
O	45,547	417	0	2.1	220.6	220.6	221.6	1.0

Who Am I : Advanced | Effective

- Flood General Public
- Risk Advanced
- Financial Vulnerability
- FIS Reports**
- Flood Risk Management Plan
- Engineering Models
- Map Export
- Data Export

Map Export

Select a map template

- ☒ Current View
- ☐ Regulatory

Select PDF paper size

- ☒ 8.5 x 11
- ☐ 11 x 17

[Print](#)

Data Export

[Click the map to download data.](#)

[DFIRM: E Size Image](#)

[DFIRM: Effective PDF](#)

[Imagery: TIFF File](#)

[Imagery: World File](#)

Click to go to the [Data Download](#) page.

[Extract and Download](#)

Map / Data Exports

Summary of Discharges					
Flooding Source		Discharges (cfs)			
Location	Drainage Area (square miles)	10% Annual Chance	2% Annual Chance	1% Annual Chance	0.2% Annual Chance
East Tarboro Canal					
Approximately 200 feet upstream of confluence with the Tar River	3.09	702	1,280	1,510	2,180
Approximately 0.2 mile upstream of confluence with the Tar River	2.54	687	1,240	1,450	2,080
Approximately 1.0 mile upstream of confluence with the Tar River	2.24	608	1,120	1,320	1,900
Approximately 1.1 miles upstream of confluence with the Tar River	1.16	563	1,000	1,160	1,610
Approximately 1.5 miles upstream of confluence with the Tar River	0.78	515	909	1,040	1,420

[Print](#)

Dynamic Summary of Discharges

AL FRIS Features & Functions

Map Export

Select a map template

- ☒ Current View
- ☐ Regulatory

Select PDF paper size

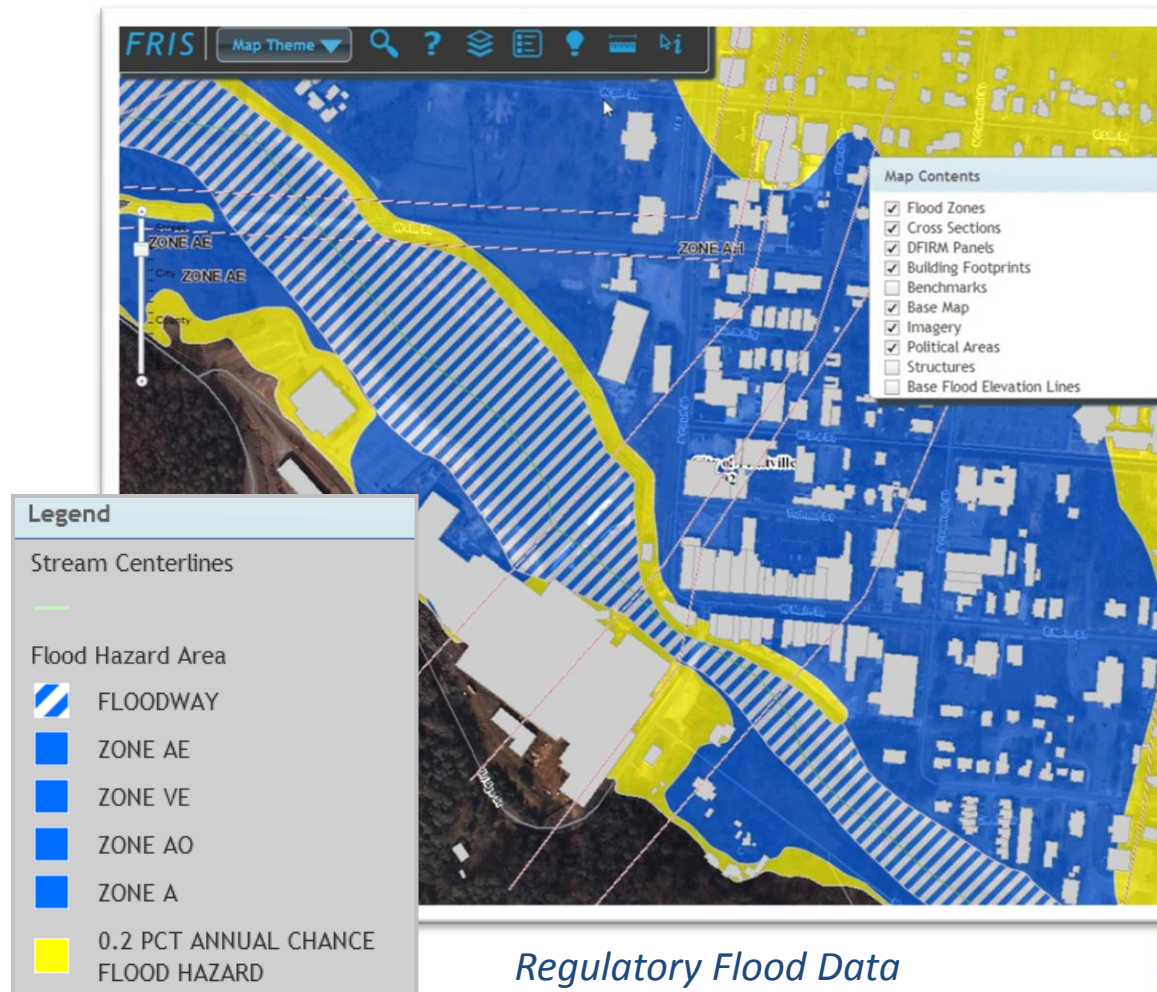
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Print

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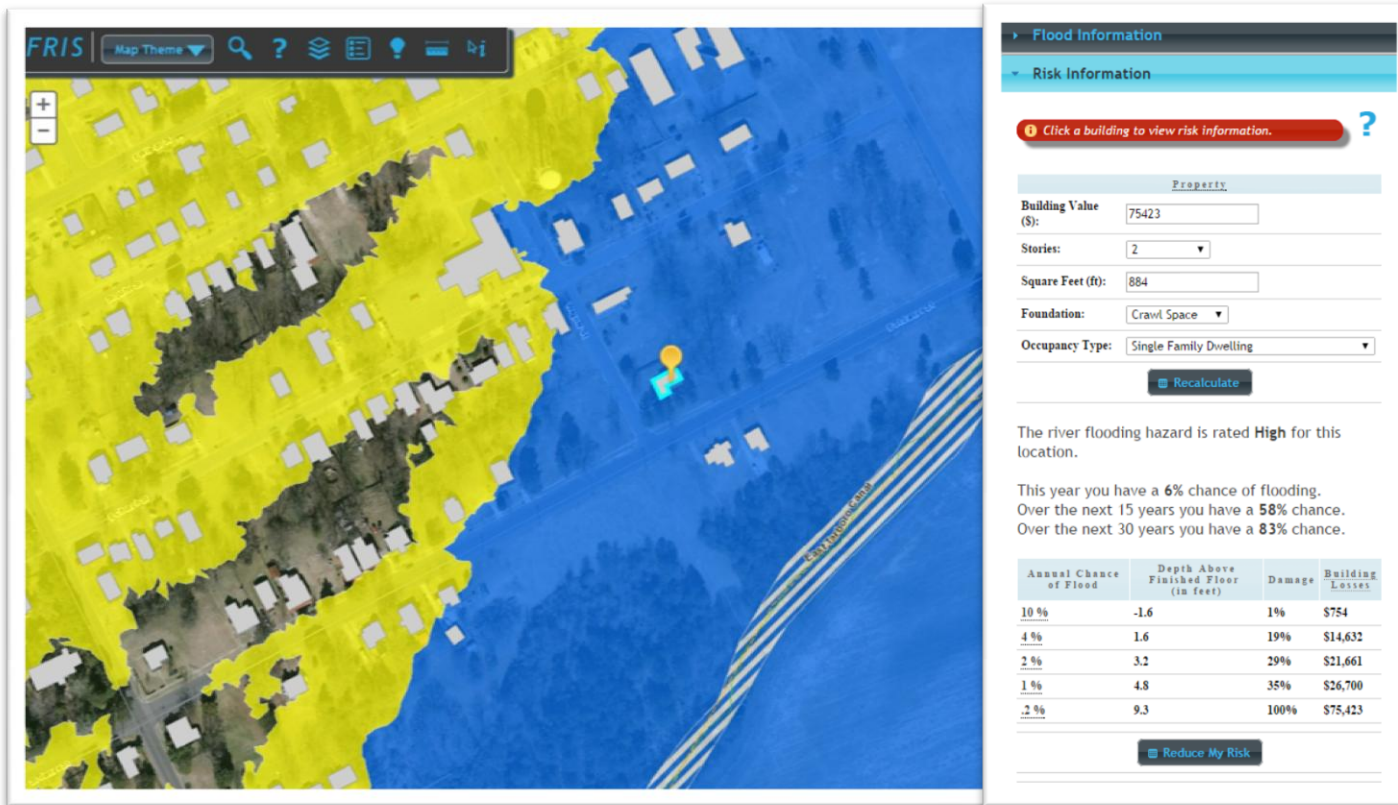
Map Export Function

AL FRIS Features & Functions



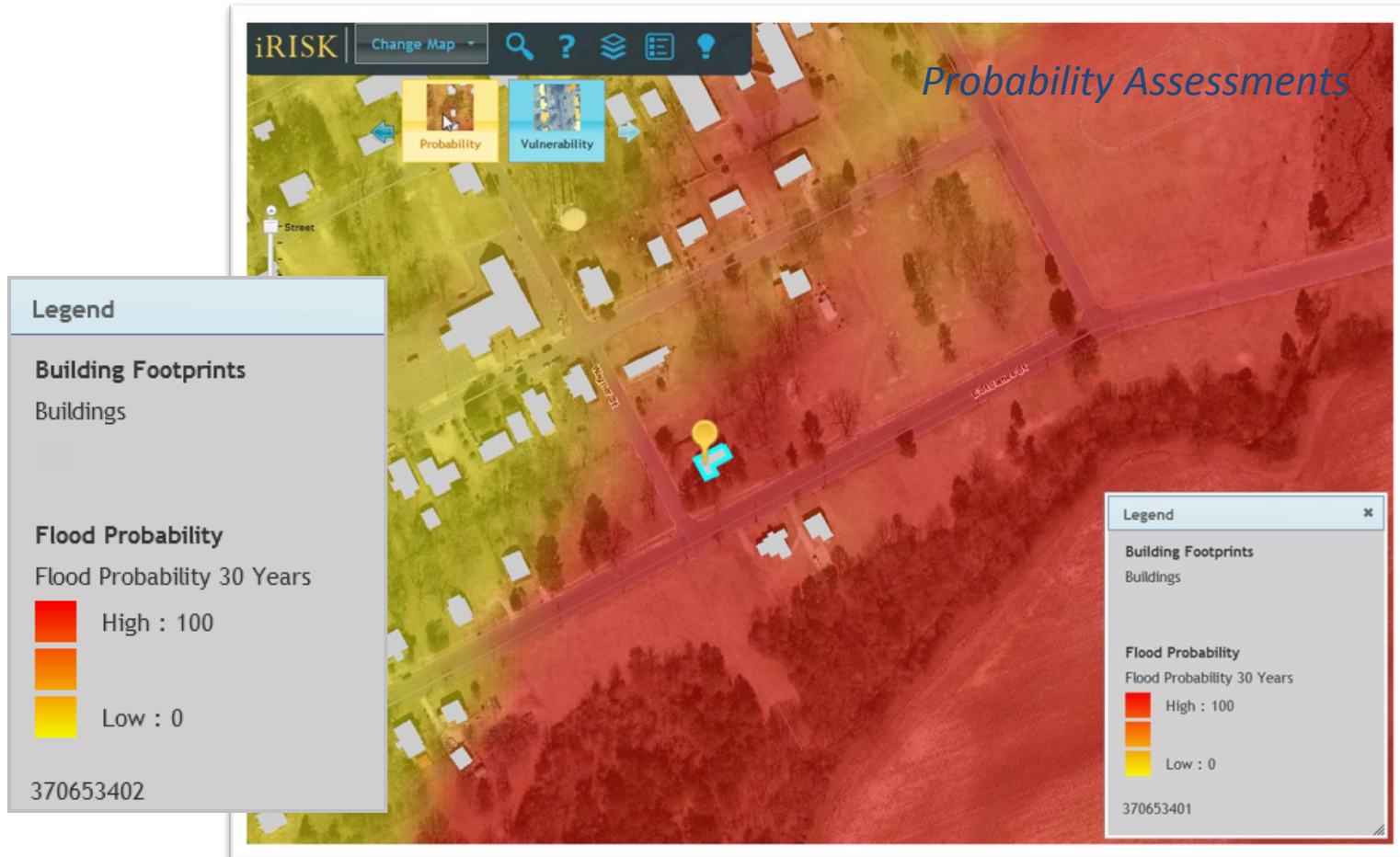
Regulatory Flood Data

AL FRIS Features & Functions

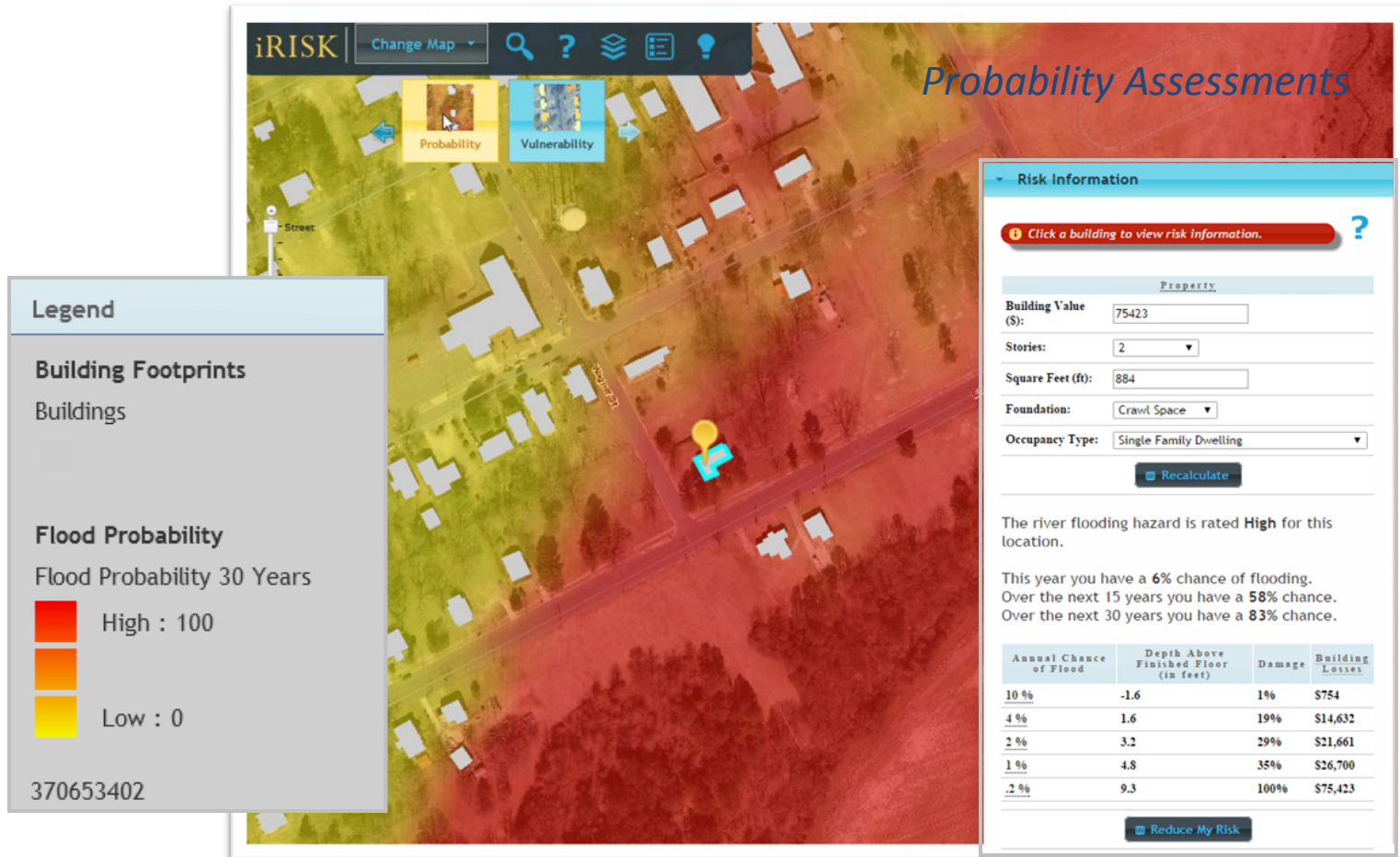


Risk Information

AL FRIS Features & Functions



AL FRIS Features & Functions



AL FRIS Features & Functions



AL FRIS Features & Functions



Why is AL FRIS Not Published Yet?

Modification of Statewide datasets for Consistency with NC FRIS System Requirements

- System based on seamless data sets
- No Statewide Generator of GIS in AL
- Sixty-seven (67) separate countywide flood databases/datasets
- Adapt & amend spatial data for site functionality
 - Adding stream node locations (SoDs Table)
 - Merging stream segments (model download)

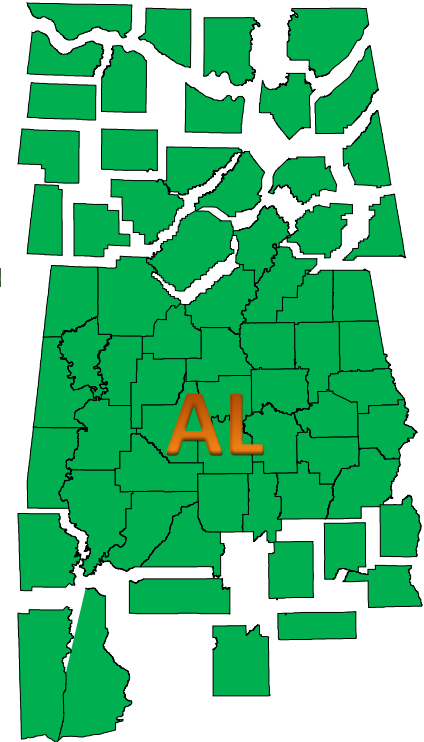
**NC performed years of back population of their data to include in the FRIS System*



Back Population of AL data

Sixty-seven (67) Counties datasets:

- Digital FIRM DBs (Merge)
- Aerial Photography (Mosaic)
- Adjusting/Amending Spatial Data

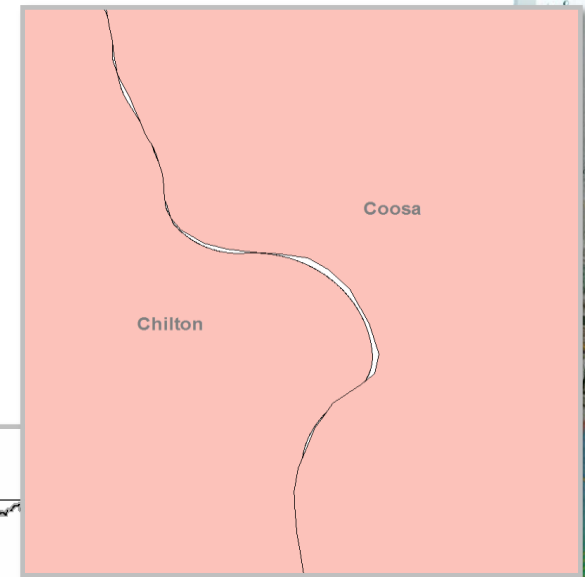
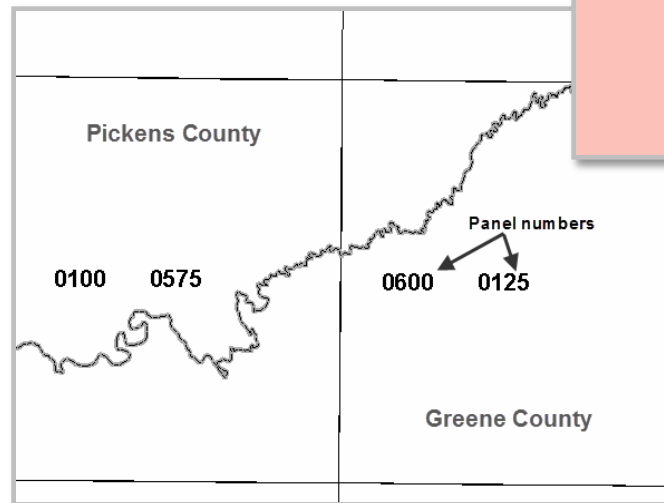
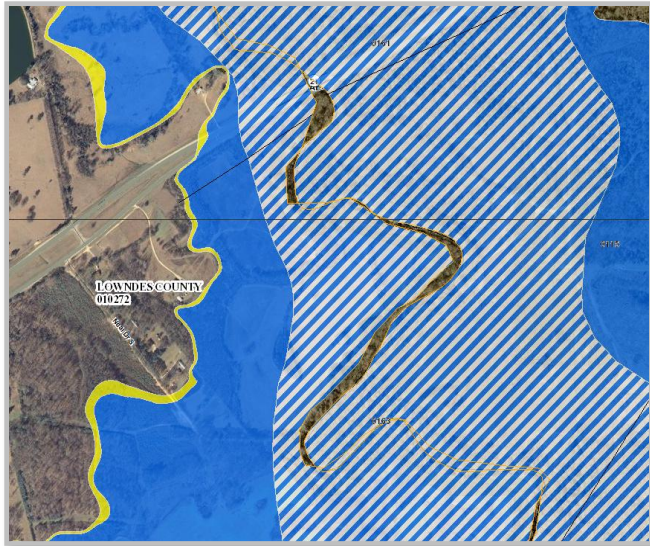


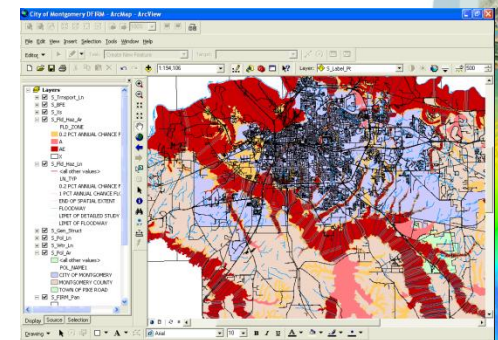
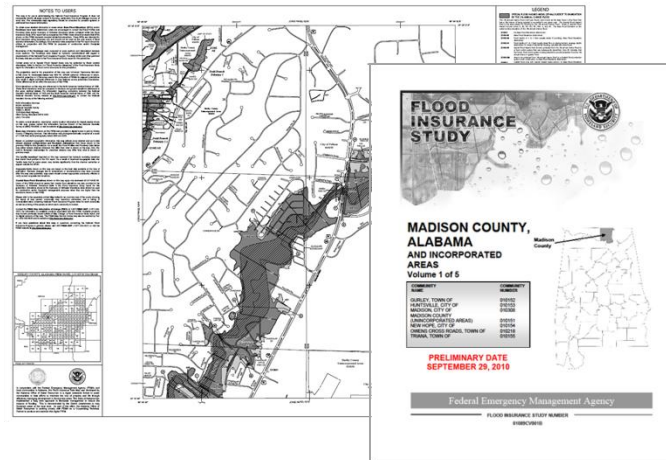
Unforeseen Issues

Overlapping DFIRM BD at County Boundaries

Overlapping Panel Scheme at County Boundaries

Segmented Steam Lines Spanning County Boundaries



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Adjusting Spatial Data

Discharge Node Development

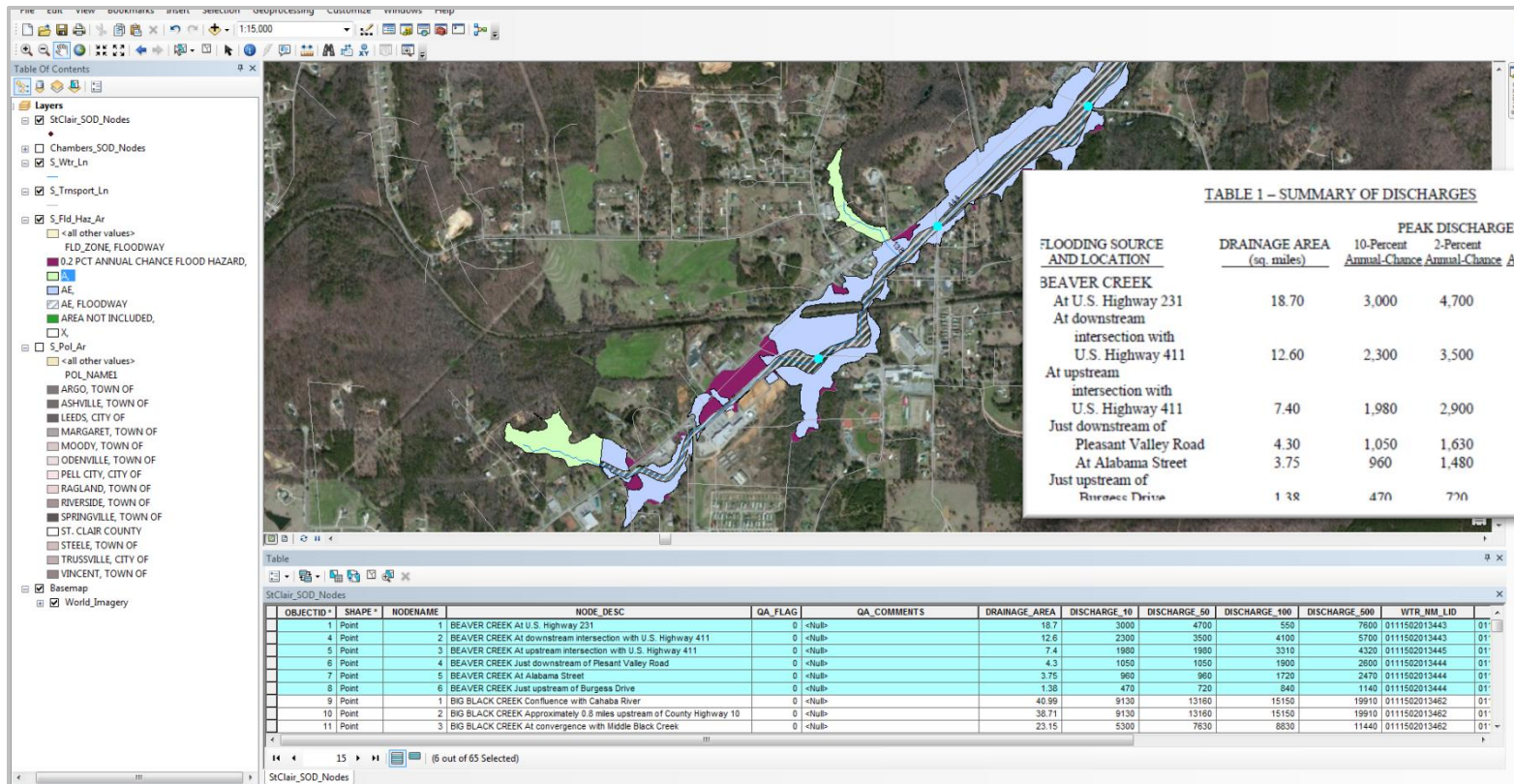
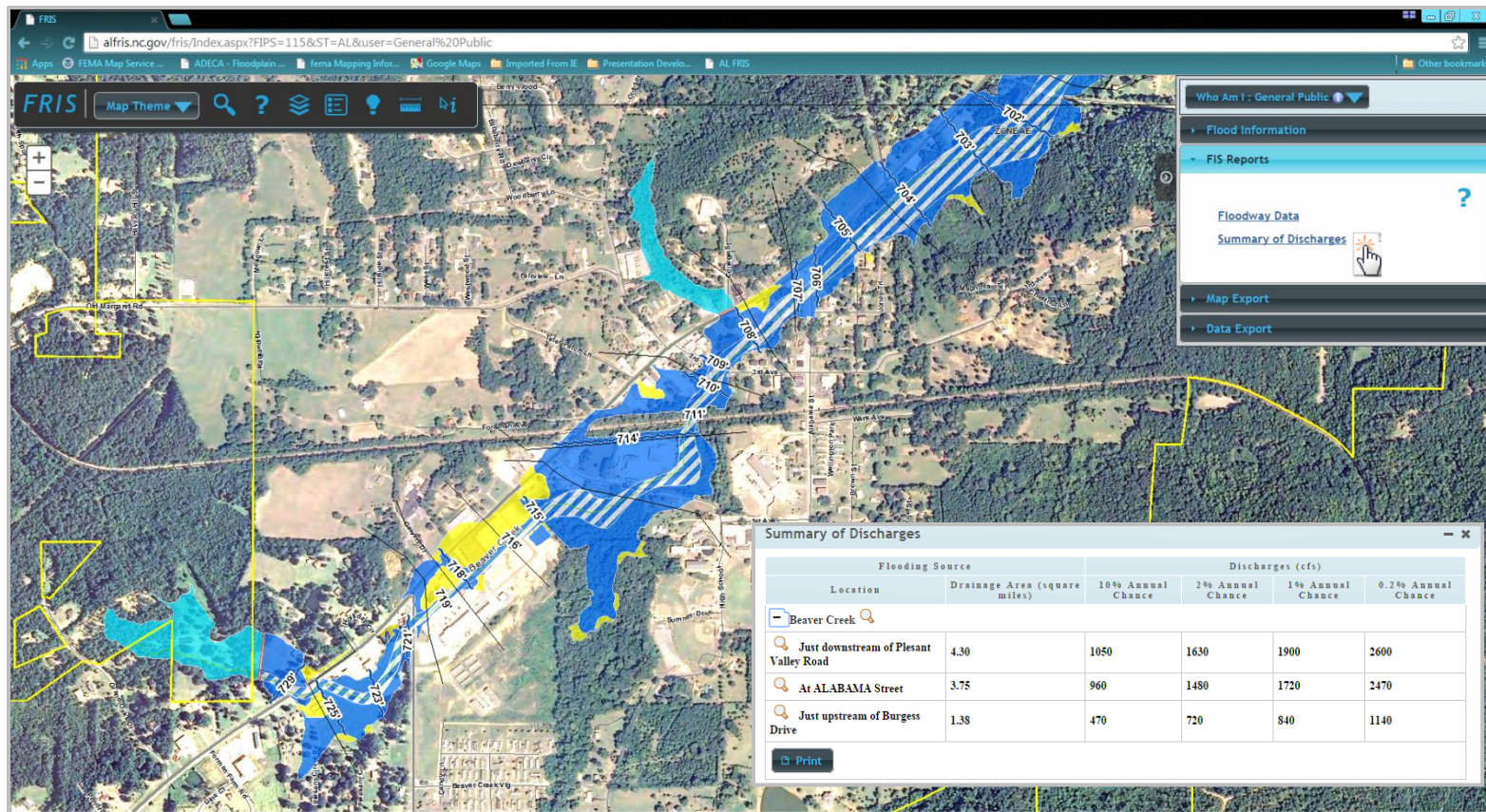


TABLE 1 – SUMMARY OF DISCHARGES

FLOODING SOURCE AND LOCATION	DRAINAGE AREA (sq. miles)	PEAK DISCHARGES (cfs)			
		10-Percent Annual-Chance	2-Percent Annual-Chance	1-Percent Annual-Chance	0.2-Percent Annual-Chance
BEAVER CREEK					
At U.S. Highway 231	18.70	3,000	4,700	5,500	7,600
At downstream intersection with U.S. Highway 411	12.60	2,300	3,500	4,100	5,700
At upstream intersection with U.S. Highway 411	7.40	1,980	2,900	3,310	4,320
Just downstream of Pleasant Valley Road	4.30	1,050	1,630	1,900	2,600
At Alabama Street	3.75	960	1,480	1,720	2,470
Just upstream of Burgess Drive	1.38	470	720	840	1,140

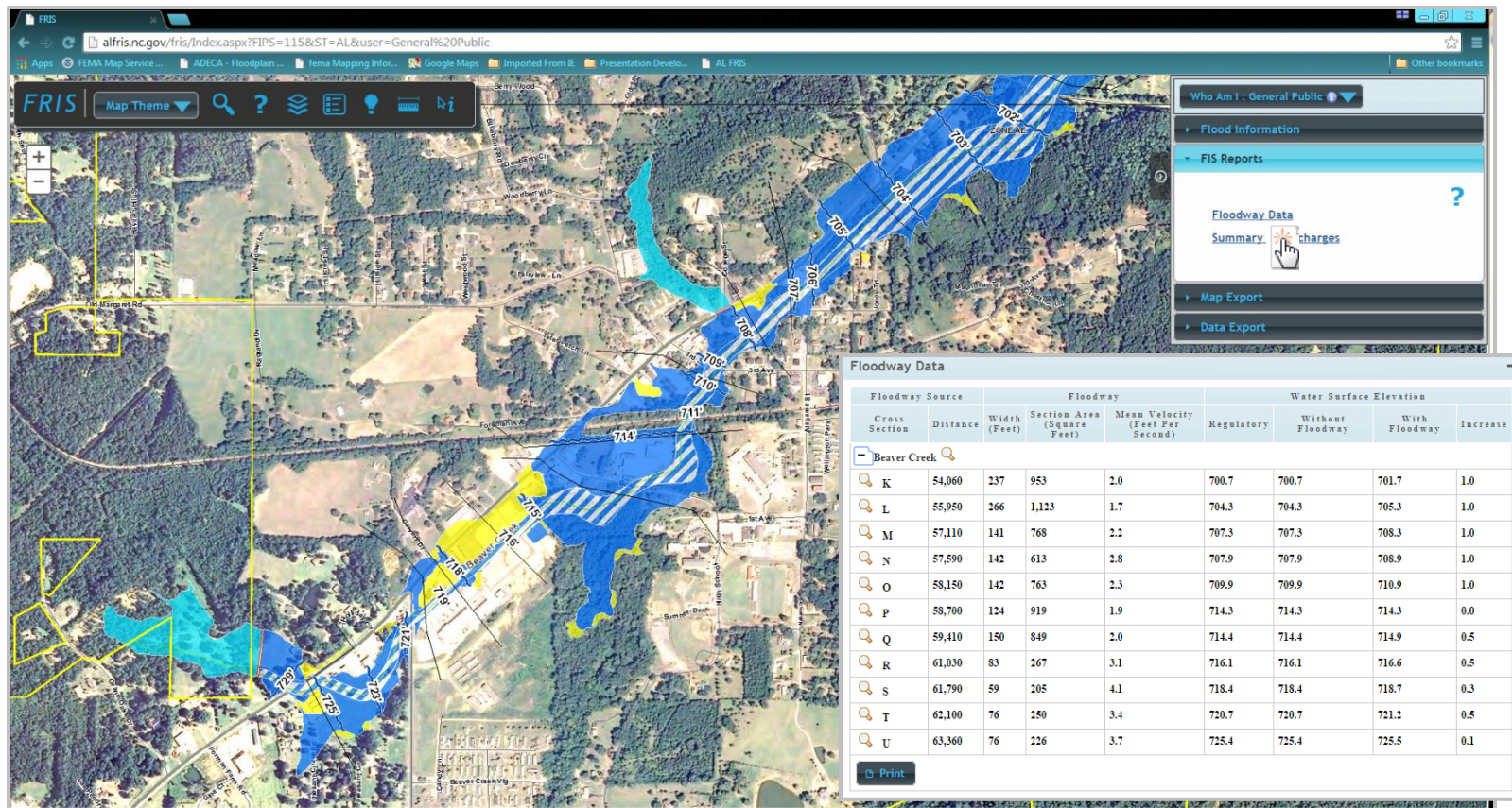
Adjusting Spatial Data

Dynamic Summary of Discharges Table



Adjusting Spatial Data

Dynamic Floodway Data Table

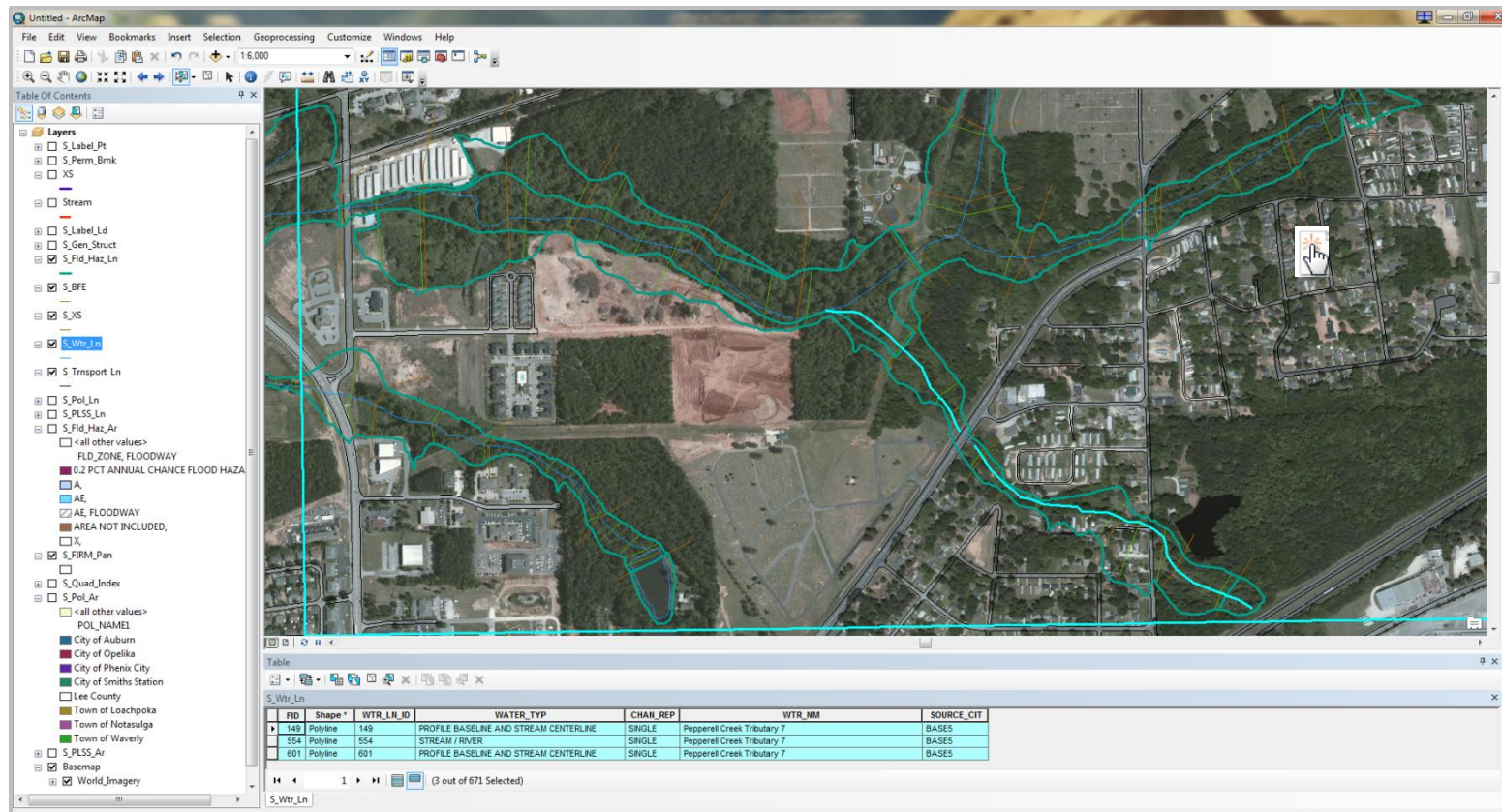


Hydraulic Model Download



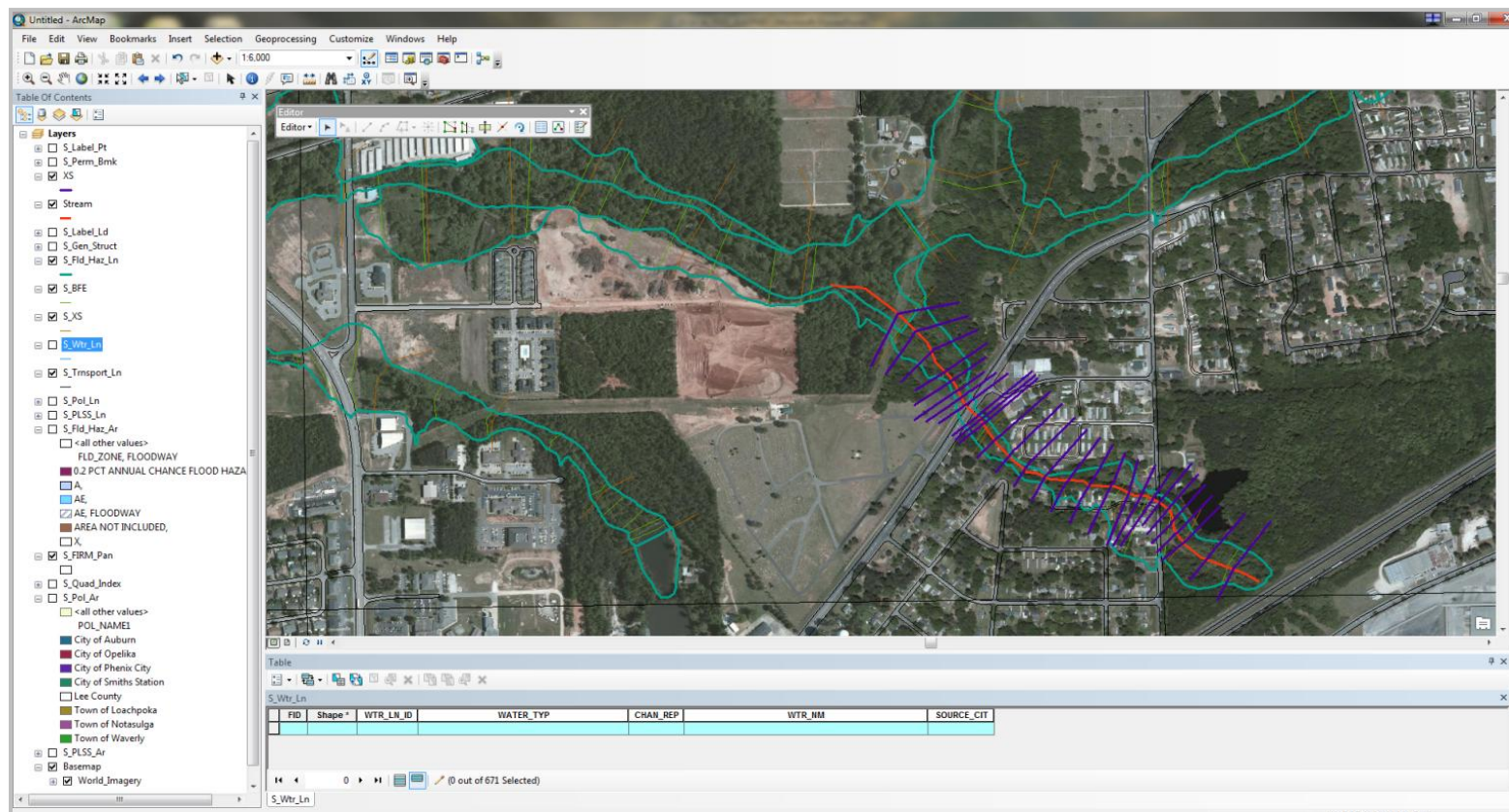
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Hydraulic Model Download



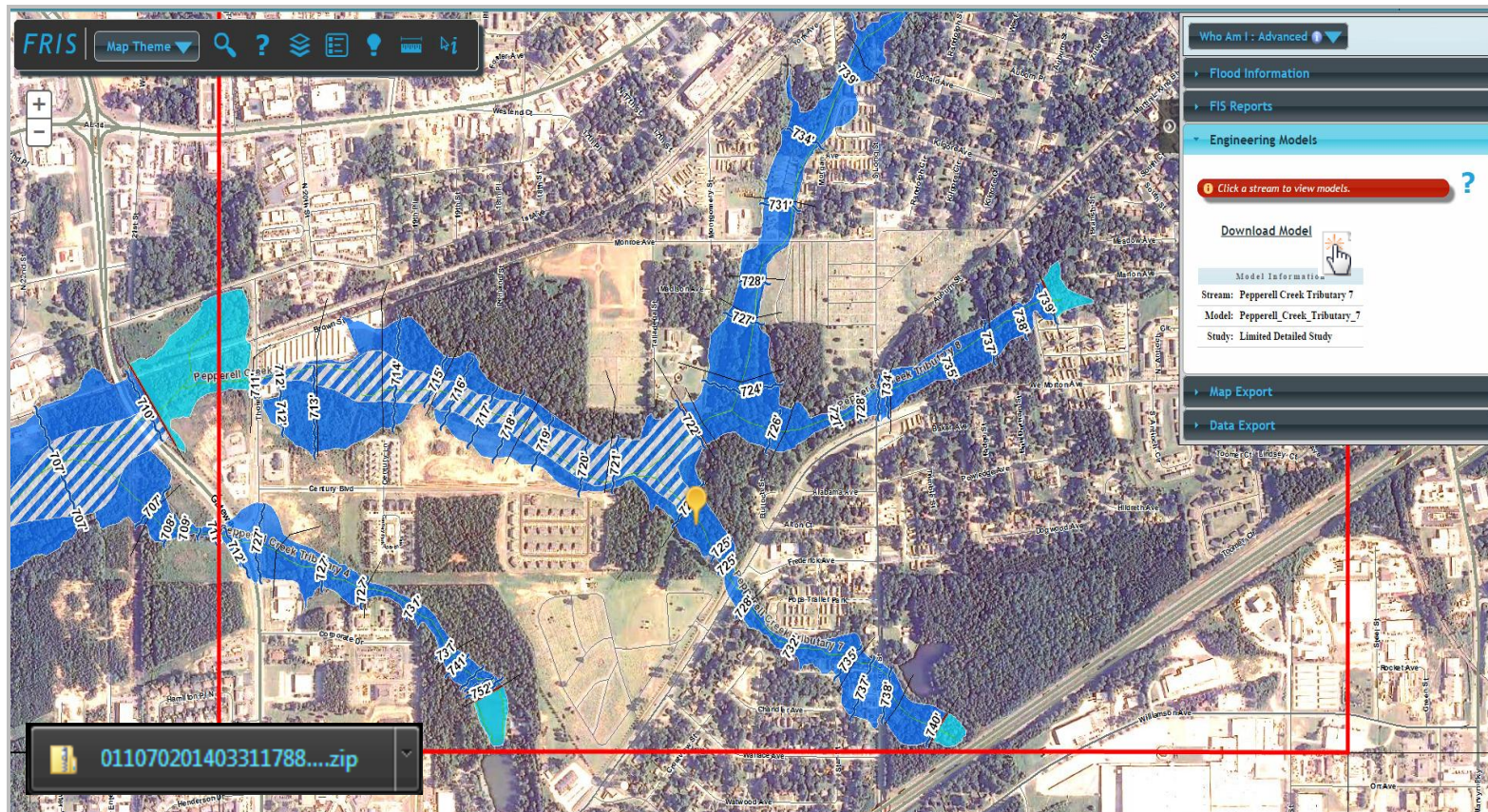
Adjusting Spatial Data

Hydraulic Model Download



Adjusting Spatial Data

Hydraulic Model Download



Data Development Progress

Currently flood data for all sixty-seven (67) Counties are available for view

Currently forty-one (41) Counties have model download capability

Update of Regulatory & Non-Regulatory (Risk MAP) data for recently effective Counties

Project fully functional site by late 2015

